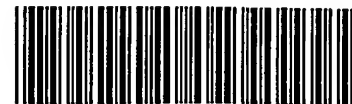# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/532,198 A_

Source: _IFWP_

Date Processed by STIC: _08/04/2006_

ENTERED

IFWP

RAW SEQUENCE LISTING   DATE: 08/04/2006
PATENT APPLICATION: US/10/532,198A   TIME: 12:43:10

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\08042006\J532198A.raw

```
    4 <110> APPLICANT: Sanchez, Alejandro
    5         Robb, Sofia
    7 <120> TITLE OF INVENTION: MANAGING BIOLOGICAL DATABASES
   10 <130> FILE REFERENCE: 21101.0049U2
   12 <140> CURRENT APPLICATION NUMBER: 10/532,198A
C--> 13 <141> CURRENT FILING DATE: 2005-04-21
   15 <150> PRIOR APPLICATION NUMBER: PCT/US2003/033590
   16 <151> PRIOR FILING DATE: 2003-10-22
   18 <150> PRIOR APPLICATION NUMBER: 60/420,216
   19 <151> PRIOR FILING DATE: 2002-10-22
   21 <160> NUMBER OF SEQ ID NOS: 9
   23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
   25 <210> SEQ ID NO: 1
   26 <211> LENGTH: 360
   27 <212> TYPE: DNA
   28 <213> ORGANISM: Artificial Sequence
   30 <220> FEATURE:
   31 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
   32         synthetic construct
   34 <220> FEATURE:
   35 <221> NAME/KEY: misc_feature
   36 <222> LOCATION: 169, 226
   37 <223> OTHER INFORMATION: n=a, t, c, or g
   39 <220> FEATURE:
   40 <221> NAME/KEY: misc_feature
   41 <222> LOCATION: 276
   42 <223> OTHER INFORMATION: n=a, t, c, or g
   44 <400> SEQUENCE: 1
   45 cttctgcaag gtccacagtt accattaaca aatcgagtcc tgcagtaaag gaatatgaaa      60
   46 tgagacaatc ctacaatttt tctggagcac ctatgggggg atcagttcaa attcatagca     120
W--> 47 atgtgtcttc tgctgtagag ggccgagaaa gagaaaagag agaaatgcna gatcttaatg     180
   48 aaaggctagc taattatatt gaaaaggtaa gatttctaga agctcnaaac aaaagattaa     240
   49 caaatgaatt gaatacgtta cgtgaaagat ggggtnaaga agctgaaagg atacgagctt     300
   50 tatatgagat tgaaatggat caattgaaaa agttattaga cgaagctgaa gctgctagat     360
   52 <210> SEQ ID NO: 2
   53 <211> LENGTH: 60
   54 <212> TYPE: PRT
   55 <213> ORGANISM: Artificial Sequence
   57 <220> FEATURE:
   58 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
   59         synthetic construct
   61 <220> FEATURE:
   62 <221> NAME/KEY: VARIANT
```

RAW SEQUENCE LISTING   DATE: 08/04/2006
PATENT APPLICATION: US/10/532,198A   TIME: 12:43:10

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\08042006\J532198A.raw

```
 63 <222> LOCATION: 2, 48
 64 <223> OTHER INFORMATION: Xaa = any amino acid
 66 <400> SEQUENCE: 2
W--> 67 Asn Xaa Ser Ser Pro Ala Val Lys Glu Tyr Glu Met Arg Gln Ser Tyr
 68  1               5                  10                  15
 69 Asn Phe Ser Gly Ala Pro Met Gly Gly Ser Val Gln Ile His Ser Asn
 70              20                  25                  30
 71 Val Ser Ser Ala Val Glu Gly Arg Glu Arg Glu Lys Arg Glu Met Xaa
 72          35                  40                  45
 73 Asp Leu Asn Glu Arg Leu Ala Asn Tyr Ile Glu Lys
 74     50                  55                  60
 76 <210> SEQ ID NO: 3
 77 <211> LENGTH: 60
 78 <212> TYPE: PRT
 79 <213> ORGANISM: Artificial Sequence
 81 <220> FEATURE:
 82 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
 83        synthetic construct
 85 <220> FEATURE:
 86 <221> NAME/KEY: VARIANT
 87 <222> LOCATION: 2-10, 13, 14, 17, 18, 20, 21, 23-25, 27-29, 32, 34-38, 42,
45, 47-49, 52,
 88        54, 59
 89 <223> OTHER INFORMATION: Xaa = any amino acid
 91 <400> SEQUENCE: 3
W--> 92 Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Met Xaa Xaa Ser Tyr
 93  1               5                  10                  15
 94 Xaa Xaa Ser Xaa Xaa Pro Xaa Xaa Xaa Ser Xaa Xaa Xaa His Ser Xaa
 95              20                  25                  30
 96 Val Xaa Xaa Xaa Xaa Xaa Gly Arg Glu Xaa Glu Lys Xaa Glu Xaa Xaa
 97          35                  40                  45
 98 Xaa Leu Asn Xaa Arg Xaa Ala Asn Tyr Ile Xaa Lys
 99     50                  55                  60
101 <210> SEQ ID NO: 4
102 <211> LENGTH: 60
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
108        synthetic construct
110 <400> SEQUENCE: 4
111 Asn Gln Asn Ala Ser Ser Ile Arg Thr Ile Glu Met Lys Lys Ser Tyr
112  1               5                  10                  15
113 Gly Val Ser Ala Thr Pro Gly Ala Thr Ser Asn Ile Val His Ser Gly
114              20                  25                  30
115 Val Asn Asn Leu Met Asn Gly Arg Glu Lys Glu Lys Asn Glu Leu Gln
116          35                  40                  45
117 Glu Leu Asn Asp Arg Phe Ala Asn Tyr Ile Asp Lys
118     50                  55                  60
120 <210> SEQ ID NO: 5
```

```
    121 <211> LENGTH: 60
    122 <212> TYPE: PRT
    123 <213> ORGANISM: Artificial Sequence
    125 <220> FEATURE:
    126 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
    127      synthetic construct
    129 <220> FEATURE:
    130 <221> NAME/KEY: VARIANT
    131 <222> LOCATION: 7, 24
    132 <223> OTHER INFORMATION: Xaa = any amino acid
    134 <400> SEQUENCE: 5
W-->135 Val Arg Phe Leu Glu Ala Xaa Asn Lys Arg Leu Thr Asn Glu Leu Asn
    136 1               5                   10                  15
    137 Thr Leu Arg Glu Arg Trp Gly Xaa Glu Ala Glu Arg Ile Arg Ala Leu
    138             20                  25                  30
    139 Tyr Glu Ile Glu Met Asp Gln Leu Lys Lys Leu Leu Asp Glu Ala Phe
    140         35                  40                  45
    141 Ala Ala Arg Ser Glu Leu Leu Pro Lys Ile Asn Lys
    142     50                  55                  60
    144 <210> SEQ ID NO: 6
    145 <211> LENGTH: 60
    146 <212> TYPE: PRT
    147 <213> ORGANISM: Artificial Sequence
    149 <220> FEATURE:
    150 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
    151      synthetic construct
    153 <220> FEATURE:
    154 <221> NAME/KEY: VARIANT
    155 <222> LOCATION: 3, 6-7, 13, 17, 19-21, 24, 26-27, 30, 34-36, 38, 41-43,
    156      46, 50-53, 55-56, 60
    157 <223> OTHER INFORMATION: Xaa = any amino acid
    159 <400> SEQUENCE: 6
W-->160 Val Arg Xaa Leu Glu Xaa Xaa Asn Lys Arg Leu Thr Xaa Glu Leu Asn
    161 1               5                   10                  15
    162 Xaa Leu Xaa Xaa Xaa Trp Gly Xaa Glu Xaa Xaa Arg Ile Xaa Ala Leu
    163             20                  25                  30
    164 Tyr Xaa Xaa Xaa Met Xaa Gln Leu Xaa Xaa Xaa Leu Asp Xaa Ala Glu
    165         35                  40                  45
    166 Ala Xaa Xaa Xaa Xaa Leu Xaa Xaa Lys Ile Asn Xaa
    167     50                  55                  60
    169 <210> SEQ ID NO: 7
    170 <211> LENGTH: 60
    171 <212> TYPE: PRT
    172 <213> ORGANISM: Artificial Sequence
    174 <220> FEATURE:
    175 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
    176      synthetic construct
    178 <400> SEQUENCE: 7
    179 Val Arg Ser Leu Glu Asp Glu Asn Lys Arg Leu Thr Asp Glu Leu Asn
```

```
180  1                    5                    10                   15
181  Asp Leu Lys Asp Gln Trp Gly Asn Glu Thr Ala Arg Ile Lys Ala Leu
182           20                   25                 ·30
183  Tyr Asp Ser Asp Met Ser Gln Leu Arg Arg Ser Leu Asp Gln Ala Glu
184          35                   40                   45
185  Ala Ser Lys Ala Gln Leu Glu Met Lys Ile Asn Thr
186      50                   55                   60
188  <210> SEQ ID NO: 8
189  <211> LENGTH: 60
190  <212> TYPE: DNA
191  <213> ORGANISM: Artificial Sequence
193  <220> FEATURE:
194  <223>·OTHER INFORMATION: Description of Artificial Sequence:/ note =
195        synthetic construct
197  <400> SEQUENCE: 8
198  cttctgcaag gtccacagtt accattaaca aatcgagtcc tgcagtaaag gaatatgaaa    60
200  <210> SEQ ID NO: 9
201  <211> LENGTH: 60
202  <212> TYPE: DNA
203  <213> ORGANISM: Artificial Sequence
205  <220> FEATURE:
206  <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
207        synthetic construct
209  <400> SEQUENCE: 9
210  tgagacaatc ctacaatttt tctggagcac ctatgggggg atcagttcaa attcatagca    60
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/04/2006
PATENT APPLICATION: US/10/532,198A   TIME: 12:43:11

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\08042006\J532198A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the
<220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 169,226,276
Seq#:2; Xaa Pos. 2,48
Seq#:3; Xaa Pos. 2,3,4,5,6,7,8,9,10,13,14,17,18,20,21,23,24,25,27,28,29,32
Seq#:3; Xaa Pos. 34,35,36,37,38,42,45,47,48,49,52,54,59
Seq#:5; Xaa Pos. 7,24
Seq#:6; Xaa Pos. 3,6,7,13,17,19,20,21,24,26,27,30,34,35,36,38,41,42,43,46
Seq#:6; Xaa Pos. 50,51,52,53,55,56,60

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes
spaces.

Seq#:3; Line(s) 87

VERIFICATION SUMMARY   DATE: 08/04/2006
PATENT APPLICATION: **US/10/532,198A**   TIME: 12:43:11

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08042006\J532198A.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120
M:341 Repeated in SeqNo=1
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6